

ABSTRACT OF THE DISCLOSURE

A linear motor increases the space factor of a copper wire with respect to a coil section, increases the current density of a driving current supplied to a coil, and realizes higher speed and lower power consumption of a stage apparatus. In an exposure apparatus for exposing a substrate to a pattern drawn on a master surface, a linear motor with a coil formed by winding a foil-like conductor in a multilayered structure is used for driving a stage which supports a master or substrate, and for damping of the main body structure by cutting off transmission of a reaction force from the stage.